PARADYNE™

5-Slot Housing and FrameSaver 9000 Series Access Carrier AC Power Supply

Installation Instructions

Document Number 9000-A2-GN17-30

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Before You Begin

Both the 5-slot housing and the FrameSaver 9000 Series Access Carrier can hold up to two power supplies. A second redundant power supply provides backup for the first.

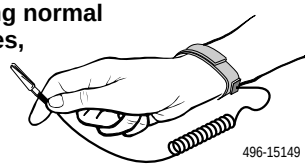
Before you start your installation, be sure to review the following information.

CAUTION:

Refer installation of power supplies to qualified service personnel.

⚠ HANDLING PRECAUTIONS FOR STATIC-SENSITIVE DEVICES

This product is designed to protect sensitive components from damage due to electrostatic discharge (ESD) during normal operation. When performing installation procedures, however, take proper static control precautions to prevent damage to equipment. If you are not sure of the proper static control precautions, contact your nearest sales or service representative.



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Package Contents

Verify that your package contains an ac power supply (see following specifications).

Do I Have the Correct Power Supply?

The following ac power supplies are available. Make sure that you have the correct one for your housing and application.

NOTE:

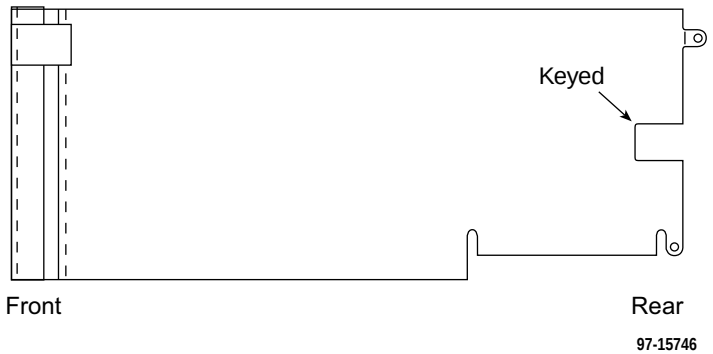
The 120 Vac power supply has a label to warn you to connect the supply only to a 100–120 Vac power source.

Name/Feature Number	Wattage/Volts	Fits in This Housing	Keyed?	For International Use?
120 Vac Power Supply (Feature No. 9005-F1-020)	60 watts, 100–120 Vac	5-slot only	No	No
Universal Power Supply (Feature No. 9007-F1-040)	70 watts, 100–240 Vac	Access Carrier only	Yes (see figure on page 3)	Yes

Technical Specifications for 120 Vac Power Supply in 5-Slot Housing

Specification	Criteria
Rated Nominal Voltage	100–120 Vac, 50/60 Hz
Operating Voltage Range	85–132 Vac, 50/60 Hz
Rated Current	1.5 Amps
Power Consumption (typical) **1 power supply installed**	120 Vac 60 Hz 1.03 amps 60 watts 100 Vac 50 Hz 1.15 amps 60 watts Result: 207 Btu per hour
2 power supplies installed	120 Vac 60 Hz 1.13 amps 64.5 watts 100 Vac 50 Hz 1.25 amps 64.5 watts Result: 221 Btu per hour

Universal Power Supply



Technical Specifications for Universal Power Supply in Access Carrier

Specification	Criteria
Rated Nominal Voltage	100–240 Vac, 50/60 Hz
Operating Voltage Range	85–265 Vac, 50/60 Hz
Rated Current	4.0 amps
Power Consumption (typical) **1 power supply installed**	100 Vac 60 Hz 1.7 amps 171 watts 120 Vac 60 Hz 1.4 amps 171 watts 230 Vac 50 Hz 0.8 amps 167 watts Result: 585 Btu per hour
2 power supplies installed	100 Vac 60 Hz 1.9 amps 177 watts 120 Vac 60 Hz 1.5 amps 177 watts 230 Vac 50 Hz 0.9 amps 172 watts Result: 609 Btu per hour

Installing the Initial Power Supply

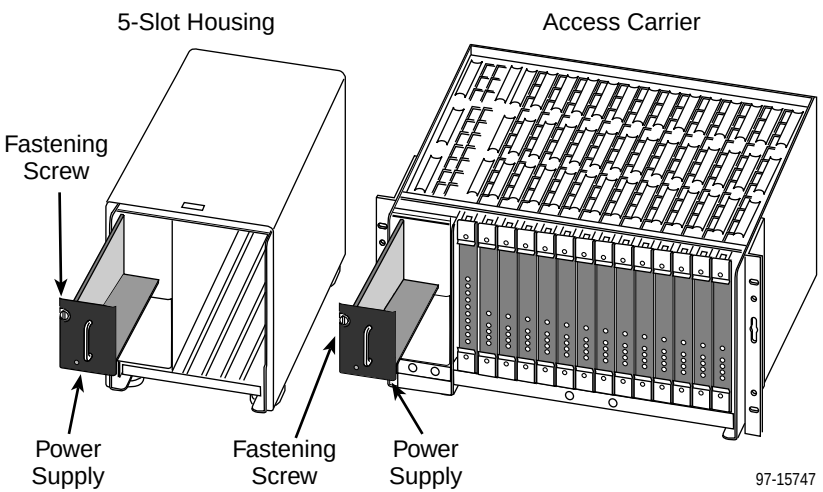
Install the initial power supply into the top slot. (Use the bottom slot for a second power supply, if desired.)

1. Remove power supply from its shipping box. Handle only by the top and bottom edges to avoid damaging the card.

   NOTE:

   The power I/O card in the rear of the housing delivers ac power for either one, or if needed, two power supplies. The power I/O card is marked with a label indicating the proper voltage.

2. At the front of the housing, use the attached handle on the power supply to carefully slide the card into the top left slot towards the midplane until you feel it connect. Be sure that you slide the card in using the card guides provided on the housing.



3. Locate the screw in the top left corner of the power supply. Using a flat-blade screwdriver, turn the screw counterclockwise until it stops turning. Then turn the screw clockwise until it locks the power supply in place.

Installing the Redundant Power Supply

Install the redundant power supply into the bottom slot. Disconnect power before servicing.

1. Unscrew and remove the filler panel to install a redundant power supply.
2. Remove power supply from its shipping box. Handle only by the top and bottom edges to avoid damaging the card.

   NOTE:

   The power I/O card in the rear of the housing delivers ac power for either one, or if needed, two power supplies. The power I/O card is marked with a label indicating the proper voltage.
3. At the front of the housing, use the attached handle on the power supply to carefully slide the card into the bottom left slot towards the midplane until you feel it connect. Be sure that you slide the card in using the card guides provided on the housing.
4. Locate the screw in the top left corner of the power supply. Using a flat-blade screwdriver, turn the screw counterclockwise until it stops turning. Then turn the screw clockwise until it locks the power supply in place.

Installing a Replacement Power Supply

Install a replacement power supply into either the top or bottom slot. Disconnect power before servicing.

1. Unscrew and remove the current power supply to install a replacement power supply.
2. Remove the new power supply from its shipping box. Handle only by the top and bottom edges to avoid damaging the card.

   NOTE:

   The power I/O card in the rear of the housing delivers AC power for either one, or if needed, two power supplies. The power I/O card is marked with a label indicating the proper voltage.
3. At the front of the housing, use the attached handle on the power supply to carefully slide the card into the slot towards the midplane until you feel it connect. Be sure that you slide the card in using the card guides provided on the housing.
4. Locate the screw in the top left corner of the power supply. Using a flat-blade screwdriver, turn the screw counterclockwise until it stops turning. Then turn the screw clockwise until it locks the power supply in place.

Power-Up Verification

WARNING:

The power cord contains a 3-wire grounding-type plug which has a grounding pin. This is a safety feature. Grounding of the carrier is vital to ensure safe operation. Do not defeat the purpose of the grounding plug by modifying it or by using an adapter.

Prior to installation, use an outlet tester or voltmeter to check the ac receptacle for earth ground. If the power source does not provide a ground connection, consult an electrician to determine another method of grounding the carrier before proceeding with the installation.

1. Insert the IEC connector end of the power cord into the I/O card's power IEC 320 inlet.
2. Insert the plug into an ac outlet. The power supply LED lights.

Verification Checklist

❑ Did the green power supply LED light? If not, see *Troubleshooting*.

Troubleshooting

Power Supply

Symptom	Possible Cause	Solutions
No power.	The power cord is not securely plugged into the wall receptacle or rear housing connection.	Check that the power cord is securely attached at both ends.
	The wall receptacle has no power.	Check the wall receptacle power by plugging in some equipment that is known to be working. Check the circuit breaker.
	Power supply is not fully inserted into the housing.	Reinstall the power supply, making sure that you gently push it all the way into the housing.

If you are still having problems with the power supply, contact your service representative.

Removing the Power Cord

When disconnecting a power cord from an installed power supply:

1. Disconnect the power cord plug from the ac outlet first.
2. Disconnect the power cord from the rear of the power supply.

Power Failure Recovery

In cases of loss and restoration of nominal voltage conditions, this product automatically restores to service without manual intervention.

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